

CPC**COOPERATIVE PATENT CLASSIFICATION****E05Y****INDEXING SCHEME RELATING TO HINGES OR OTHER SUSPENSION DEVICES FOR DOORS, WINDOWS OR WINGS AND DEVICES FOR MOVING WINGS INTO OPEN OR CLOSED POSITION, CHECKS FOR WINGS AND WING FITTINGS NOT OTHERWISE PROVIDED FOR, CONCERNED WITH THE FUNCTIONING OF THE WING****E05Y 2201/00****Constructional elements; Accessories therefore**

E05Y 2201/10

. Covers; Housings

E05Y 2201/11

.. Covers

E05Y 2201/20

. Brakes; Disengaging means e.g. clutches; Holders e.g. locks; Stops; Accessories therefore

E05Y 2201/21

.. Brakes

E05Y 2201/212

... Buffers

E05Y 2201/214

.. Disengaging means

E05Y 2201/216

... Clutches

E05Y 2201/218

.. Holders

E05Y 2201/22

... Locks

E05Y 2201/222

... Stabilizers, e.g. anti-rattle devices

E05Y 2201/224

.. Stops

E05Y 2201/23

.. Actuation thereof

E05Y 2201/232

... by automatically acting means

E05Y 2201/234

.... direction dependent

E05Y 2201/236

.... using force or torque

E05Y 2201/238

..... reaction force or torque

E05Y 2201/24

.... using lost motion

E05Y 2201/242

.... using threshold speed

E05Y 2201/244

... by manual operation

E05Y 2201/246

... by motors, magnets, springs or weights

E05Y 2201/248

... characterised by the transmission

E05Y 2201/25

.. Force or torque adjustment therefore ([400/202](#) takes precedence)

E05Y 2201/252

.. characterised by type of friction

E05Y 2201/254

... Fluid or viscous friction

E05Y 2201/256

.... with pistons or vanes

E05Y 2201/258

... Magnetic or electromagnetic friction

E05Y 2201/26

... Mechanical friction

E05Y 2201/262

.. characterised by type of motion

E05Y 2201/264

... linear

E05Y 2201/266	...	rotary
E05Y 2201/40	.	Motors; Magnets; Springs; Weights; Accessories therefore
E05Y 2201/404	..	characterised by the function
E05Y 2201/406	...	for additional wing movements only
E05Y 2201/408	...	for braking
E05Y 2201/41	...	for closing
E05Y 2201/412	....	for the final closing movement
E05Y 2201/414	....	for the initial closing movement
E05Y 2201/416	...	for counterbalancing
E05Y 2201/418	...	for holding
E05Y 2201/42	...	for locking
E05Y 2201/422	...	for opening
E05Y 2201/424	....	for the final opening movement
E05Y 2201/426	....	for the initial opening movement
E05Y 2201/428	...	for suspending or supporting
E05Y 2201/43	..	Motors
E05Y 2201/434	...	Electromotors; Details thereof
E05Y 2201/438	....	Rotors
E05Y 2201/442	....	Stators
E05Y 2201/446	....	Windings
E05Y 2201/448	...	Fluid motors; Details thereof
E05Y 2201/454	....	Cylinders
E05Y 2201/456	....	Pistons
E05Y 2201/458	....	Valves
E05Y 2201/46	..	Magnets
E05Y 2201/462	...	Electromagnets
E05Y 2201/47	..	Springs; Spring tensioners
E05Y 2201/474	...	Compression springs
E05Y 2201/476	...	Disk springs
E05Y 2201/478	...	Gas springs
E05Y 2201/48	...	Leaf springs
E05Y 2201/482	...	Ribbon springs
E05Y 2201/484	...	Torsion springs
E05Y 2201/486	....	Torsion rods
E05Y 2201/488	...	Traction springs
E05Y 2201/49	...	Wrap springs
E05Y 2201/492	...	Spring tensioners, tension sensors
E05Y 2201/496	...	Double acting springs
E05Y 2201/50	..	Weights
E05Y 2201/502	...	Wing weights

E05Y 2201/60	.	Suspension or transmission members; Accessories therefore
E05Y 2201/602	..	Suspension members
E05Y 2201/604	..	Transmission members
E05Y 2201/606	..	Accessories therefore
E05Y 2201/608	...	Back-drive
E05Y 2201/61	...	Cooperation between suspension or transmission members
E05Y 2201/612	....	between carriers and rails
E05Y 2201/614	.....	Anti-derailing means
E05Y 2201/616	....	to ensure mutual engagement e.g. counter-rollers
E05Y 2201/618	...	Transmission ratio variation
E05Y 2201/62	...	Synchronisation of transmission members
E05Y 2201/622	..	Suspension or transmission members elements
E05Y 2201/624	...	Arms
E05Y 2201/626	....	Levers
E05Y 2201/628	...	Bearings
E05Y 2201/63	....	Races
E05Y 2201/632	....	Sleeves
E05Y 2201/636	....	Universal or ball joints
E05Y 2201/638	...	Cams; Ramps
E05Y 2201/64	...	Carriers
E05Y 2201/642	....	Trackless carriers
E05Y 2201/644	...	Flexible elongated pulling elements; Members cooperating with flexible elongated pulling elements
E05Y 2201/646	....	continuous, e.g. closed loops
E05Y 2201/648	....	having teeth (toothed gearing P05Y 201/700)
E05Y 2201/652	....	Belts
E05Y 2201/654	....	Cables
E05Y 2201/656	....	Chains
E05Y 2201/658	....	Members cooperating with flexible elongated pulling elements
E05Y 2201/66	.....	Deflectors; Guides
E05Y 2201/662	.....	Cable sheaths
E05Y 2201/664	.....	Drums
E05Y 2201/666	.....	Magazines
E05Y 2201/668	.....	Pulleys; Wheels
E05Y 2201/67	.....	in tackles
E05Y 2201/672	.....	Tensioners, tension sensors
E05Y 2201/674	...	Friction wheels
E05Y 2201/676	...	Transmission of human force
E05Y 2201/678	....	Hand chains
E05Y 2201/68	....	Handles, cranks
E05Y 2201/682	...	Pins

E05Y 2201/684	...	Rails
E05Y 2201/686	...	Rods, links
E05Y 2201/688	...	Rollers
E05Y 2201/69	....	having inclined axes
E05Y 2201/692	....	having vertical axes
E05Y 2201/694	...	Scissor mechanisms
E05Y 2201/696	...	Screw mechanisms
E05Y 2201/70	....	Nuts
E05Y 2201/702	....	Spindles; Worms
E05Y 2201/704	....	Worm wheels
E05Y 2201/706	...	Shafts
E05Y 2201/708	...	Sliders (E05Y 2201/64 takes precedence)
E05Y 2201/71	...	Toothed gearing
E05Y 2201/712	....	with incomplete toothing
E05Y 2201/716	....	Pinions
E05Y 2201/718	.....	Bevelled pinions
E05Y 2201/72	....	Planetary gearing
E05Y 2201/722	....	Racks
E05Y 2201/724	.....	Flexible
E05Y 2201/726	....	Ring gears; Internal gears

E05Y 2400/00 **Electronic control; Power supply; Power or signal transmission; User interfaces**

E05Y 2400/10	.	Electronic control
E05Y 2400/20	..	of brakes, disengaging means, holders or stops
E05Y 2400/202	...	Force or torque control (mechanical aspects 201/25)
E05Y 2400/21	....	by controlling the viscosity
E05Y 2400/30	..	of motors
E05Y 2400/302	...	during electromotoric braking
E05Y 2400/31	...	Force or torque control
E05Y 2400/315	....	Curve setting or adjusting
E05Y 2400/32	...	Position control, detection or monitoring
E05Y 2400/322	....	by using absolute position sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
E05Y 2400/324	.....	Switches
E05Y 2400/326	.....	of the angular type
E05Y 2400/328	.....	of the linear type
E05Y 2400/33	....	by using load sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
E05Y 2400/332	.....	Switches
E05Y 2400/334	....	by using pulse generators

E05Y 2400/336	.....	of the angular type
E05Y 2400/337	.....	Encoder wheels
E05Y 2400/338	.....	of the linear type
E05Y 2400/34	.....	Pulse count limit setting
E05Y 2400/342	.....	Pulse count value setting or correcting
E05Y 2400/35	....	related to specific positions
E05Y 2400/354	.....	End positions
E05Y 2400/356	.....	Predefined intermediate positions
E05Y 2400/358	.....	in the proximity of end positions
E05Y 2400/36	...	Speed control, detection or monitoring
E05Y 2400/40	...	Control units therefore
E05Y 2400/41	....	for multiple motors
E05Y 2400/415	.....	for multiple wings
E05Y 2400/42	.....	for multiple openings
E05Y 2400/44	..	Sensors therefore (E05Y 2400/322 , E05Y 2400/33 , E05Y 2400/55 , E05Y 2400/56 , E05Y 2400/852 take precedence)
E05Y 2400/445	...	Switches
E05Y 2400/45	..	Control modes
E05Y 2400/452	...	for saving energy
E05Y 2400/454	...	for accommodating handicapped users
E05Y 2400/456	...	for programming
E05Y 2400/458	...	for generating service signals
E05Y 2400/50	..	Fault detection
E05Y 2400/502	...	of components
E05Y 2400/504	...	of control
E05Y 2400/506	...	of counterbalance
E05Y 2400/508	...	of detection
E05Y 2400/51	...	of position, of back drive
E05Y 2400/512	...	of electric power
E05Y 2400/514	...	of speed
E05Y 2400/52	..	Safety arrangements (Safety means for manual wing operation E05Y 2800/116)
E05Y 2400/522	...	Back-drive prevention
E05Y 2400/525	...	Car-jacking prevention
E05Y 2400/53	...	Wing impact prevention or reduction
E05Y 2400/532	.....	Emergency braking
E05Y 2400/54	.....	Obstruction or resistance detection
E05Y 2400/55	.....	by using load sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
E05Y 2400/552	.....	Switches
E05Y 2400/554	.....	sensing motor load
E05Y 2400/56	.....	by using speed sensors (sensors for electronic control of hinges, wings, windows as such E05Y 2400/44)
E05Y 2400/562	.....	Switches

- E05Y 2400/564 sensing motor speed
- E05Y 2400/57 Disabling thereof
- E05Y 2400/58 Sensitivity setting or adjustment
- E05Y 2400/59 ... Travel display

- E05Y 2400/60 . Power supply; Power or signal transmission
- E05Y 2400/61 .. Power supply
- E05Y 2400/612 ... Batteries
- E05Y 2400/614 charging thereof
- E05Y 2400/616 ... Generators
- E05Y 2400/628 Solar cells
- E05Y 2400/65 .. Power or signal transmission
- E05Y 2400/652 ... by bus
- E05Y 2400/654 ... by electrical cables
- E05Y 2400/656 ... by travelling contacts
- E05Y 2400/658 with current rails
- E05Y 2400/66 ... Wireless transmission
- E05Y 2400/662 by optical waves
- E05Y 2400/664 by radio waves

- E05Y 2400/80 . User interfaces
- E05Y 2400/81 .. User displays
- E05Y 2400/812 ... with acoustic display
- E05Y 2400/814 Sound emitters, e.g. speakers
- E05Y 2400/816 Voice emitters
- E05Y 2400/818 ... with visual display
- E05Y 2400/82 Images, Symbols
- E05Y 2400/822 Light emitters, e.g. LEDs
- E05Y 2400/85 .. User input means
- E05Y 2400/852 ... Sensors
- E05Y 2400/854 Switches
- E05Y 2400/856 Actuation thereof
- E05Y 2400/858 by body parts
- E05Y 2400/86 by hand

- E05Y 2600/00 Mounting or coupling arrangements for elements provided for in this subclass**

- E05Y 2600/10 . Adjustable or movable
- E05Y 2600/11 .. by automatically acting means
- E05Y 2600/12 .. by manual operation
- E05Y 2600/13 .. by motors, magnets, springs, weights
- E05Y 2600/14 .. with position retaining means
- E05Y 2600/20 .. characterised by the movement transmission

- E05Y 2600/30 .. characterised by the type of motion
- E05Y 2600/31 ... Linear motion
- E05Y 2600/312 Horizontal motion
- E05Y 2600/314 Vertical motion
- E05Y 2600/32 ... Rotary motion
- E05Y 2600/322 around a horizontal axis
- E05Y 2600/324 around a vertical axis
- E05Y 2600/33 ... Stepwise motion

- E05Y 2600/40 . Mounting location; Visibility of the elements
- E05Y 2600/41 .. Concealed
- E05Y 2600/412 ... in the rabbet
- E05Y 2600/45 .. in or on the fixed frame
- E05Y 2600/452 .. in or on the floor or wall
- E05Y 2600/454 .. in or on the motor
- E05Y 2600/456 .. in or on a suspension member
- E05Y 2600/458 .. in or on a transmission member
- E05Y 2600/46 .. in or on the wing

- E05Y 2600/50 . Mounting methods; Positioning
- E05Y 2600/502 .. Clamping
- E05Y 2600/504 .. Expansion
- E05Y 2600/506 .. Plastic deformation
- E05Y 2600/508 ... Riveting ([in general B21J](#))
- E05Y 2600/51 .. Screwing or bolting
- E05Y 2600/52 .. Toolless
- E05Y 2600/522 ... Axial stacking
- E05Y 2600/524 ... Friction
- E05Y 2600/526 ... Glueing or cementing
- E05Y 2600/528 ... Hooking, e.g. using bayonets; Locking
- E05Y 2600/53 ... Snapping
- E05Y 2600/54 .. Welding ([in general B23K](#), [B29C 65/02](#))
- E05Y 2600/56 .. Positioning or pre-mounting

- E05Y 2600/60 . Mounting or coupling members ([devices for fastening or securing constructional elements or machine parts together, e.g nails, bolts, in general F16B](#)); Accessories therefore
- E05Y 2600/61 .. Threaded members
- E05Y 2600/62 .. Bolts
- E05Y 2600/622 .. Dowels; Pins
- E05Y 2600/624 .. Nuts
- E05Y 2600/626 .. Plates or brackets
- E05Y 2600/628 .. Profiles

- E05Y 2600/63 .. Retainers
- E05Y 2600/632 .. Screws
- E05Y 2600/634 .. Spacers
- E05Y 2600/636 ... Washers

E05Y 2800/00 Details, accessories and auxiliary operations not otherwise provided for

- E05Y 2800/10 . Additional functions
- E05Y 2800/102 .. Additional wing movements
- E05Y 2800/104 .. Heating
- E05Y 2800/106 .. Lighting
- E05Y 2800/108 .. Lubrication
- E05Y 2800/11 .. Manual wing operation
- E05Y 2800/112 ... Back driving the transmission or motor
- E05Y 2800/113 Power assistance
- E05Y 2800/114 Overriding existing wing movement
- E05Y 2800/116 ... Safety means therefore
- E05Y 2800/12 .. Sealing
- E05Y 2800/122 .. Telescopic action

- E05Y 2800/15 . Applicability
- E05Y 2800/16 .. applicable on combinations of fixed and movable wings
- E05Y 2800/162 ... the wings being coplanar when the movable wing is in the closed position
- E05Y 2800/17 .. Universally applicable
- E05Y 2800/172 ... on different wing or frame locations
- E05Y 2800/174 on the left or right side
- E05Y 2800/176 ... on different wing types
- E05Y 2800/178 ... on wings having different thicknesses

- E05Y 2800/20 . Combinations of elements
- E05Y 2800/205 .. forming a unit
- E05Y 2800/21 .. of identical elements, e.g. of identical compression springs
- E05Y 2800/22 .. of not identical elements of the same category, e.g. combinations of not identical springs
- E05Y 2800/23 .. of elements of different categories
- E05Y 2800/232 ... of motors and transmissions
- E05Y 2800/234 ... of motors and brakes
- E05Y 2800/236 ... of motors and springs
- E05Y 2800/238 ... of springs and transmissions
- E05Y 2800/24 ... of springs and brakes
- E05Y 2800/242 .. arranged in parallel relationship
- E05Y 2800/244 .. arranged in serial relationship
- E05Y 2800/246 .. with at least one element being redundant

- E05Y 2800/25 . Emergency conditions
- E05Y 2800/252 .. the elements functioning only in case of emergency
- E05Y 2800/254 .. the elements not functioning in case of emergency

- E05Y 2800/26 . Form, shape
- E05Y 2800/262 .. column shaped
- E05Y 2800/264 .. compact
- E05Y 2800/266 .. curved
- E05Y 2800/268 .. cylindrical
- E05Y 2800/27 .. profiles
- E05Y 2800/272 ... hollow
- E05Y 2800/276 U-shaped
- E05Y 2800/278 C-shaped
- E05Y 2800/28 .. tubular
- E05Y 2800/29 .. forming a unitary piece with another element
- E05Y 2800/292 .. having apertures
- E05Y 2800/296 ... Slots
- E05Y 2800/298 .. having indentations
- E05Y 2800/33 .. having protrusions

- E05Y 2800/34 . Form stability
- E05Y 2800/342 .. Deformable
- E05Y 2800/344 ... elastically
- E05Y 2800/35 ... of specific parts

- E05Y 2800/352 . Frames; Posts
- E05Y 2800/353 .. fixed
- E05Y 2800/356 ... horizontal frame members
- E05Y 2800/358 ... vertical frame members or posts
- E05Y 2800/36 .. Movable frames
- E05Y 2800/362 ... horizontal frame members
- E05Y 2800/364 ... vertical frame members

- E05Y 2800/37 . Length, width adjustment
- E05Y 2800/372 .. Telescopic

- E05Y 2800/40 . Protection (400/50, 400/52 take precedence)
- E05Y 2800/402 .. against corrosion
- E05Y 2800/404 .. against component faults or failure
- E05Y 2800/406 .. against deformation
- E05Y 2800/407 ... plastic deformation
- E05Y 2800/409 .. against faulty mounting or coupling
- E05Y 2800/41 .. against finger injury

- E05Y 2800/412 .. against friction
- E05Y 2800/414 .. against high or low temperatures
- E05Y 2800/416 ... against fire
- E05Y 2800/42 .. against smoke or gas
- E05Y 2800/422 .. against vibration or noise
- E05Y 2800/424 .. against unintended use
- E05Y 2800/426 ... against unauthorised use (400/51, 400/522 take precedence)
- E05Y 2800/428 .. against water
- E05Y 2800/43 .. against wear

- E05Y 2800/45 . Manufacturing
 - E05Y 2800/455 .. Extrusion (in general [B29C 47/00](#), [B21C 23/00](#))
 - E05Y 2800/46 .. Injection moulding (in general [B29C 45/00](#))
 - E05Y 2800/465 .. Pressing

- E05Y 2800/67 . Materials; Strength alteration thereof
 - E05Y 2800/672 .. Glass
 - E05Y 2800/674 .. Metal
 - E05Y 2800/676 .. Plastics
 - E05Y 2800/678 ... Elastomers
 - E05Y 2800/68 .. Combinations of materials
 - E05Y 2800/682 .. Strength alteration by reinforcing, e.g. by applying ribs
 - E05Y 2800/684 .. Strength alteration by weakening, e.g. by applying grooves

- E05Y 2800/69 . Permanence of use
 - E05Y 2800/692 .. Temporary use
 - E05Y 2800/694 .. during manufacturing
 - E05Y 2800/696 .. during transport or storage

- E05Y 2800/70 . Retrofitting of elements

- E05Y 2800/71 . Secondary wings, e.g. pass doors

- E05Y 2800/72 . Sets of mutually exchangeable elements

- E05Y 2800/73 . Single use of elements

- E05Y 2800/74 . Specific positions (400/35 takes precedence)
 - E05Y 2800/742 .. abnormal
 - E05Y 2800/744 ... cleaning or service
 - E05Y 2800/746 ... emergency or extended
 - E05Y 2800/748 ... end
 - E05Y 2800/75 .. intermediate

E05Y 2900/00**Application of doors, windows, wings or fittings thereof**

- E05Y 2900/10 . for buildings or parts thereof
- E05Y 2900/102 .. for cold-rooms
- E05Y 2900/104 .. for elevators
- E05Y 2900/106 .. for garages
- E05Y 2900/108 .. for hangars
- E05Y 2900/11 .. for industrial buildings
- E05Y 2900/112 .. for restrooms
- E05Y 2900/114 .. for showers
- E05Y 2900/116 .. for sluices
- E05Y 2900/13 .. characterised by the type of wing
 - E05Y 2900/131 ... Access panels
 - E05Y 2900/132 ... Doors
 - E05Y 2900/134 Fire doors
 - E05Y 2900/136 Insect doors
 - E05Y 2900/14 Doors disappearing in pockets of a wall, e.g. so-called pocket doors
 - E05Y 2900/142 ... Partition walls
 - E05Y 2900/144 ... Security grills
 - E05Y 2900/146 ... Shutters
 - E05Y 2900/148 ... Windows
 - E05Y 2900/15 Balcony glazing
 - E05Y 2900/152 Roof windows
 - E05Y 2900/154 Skylights
- E05Y 2900/20 . for furnitures, e.g. cabinets
 - E05Y 2900/202 .. for display cabinets
 - E05Y 2900/204 .. for display counters
 - E05Y 2900/208 .. for metal cabinets
 - E05Y 2900/21 .. for safety cabinets
 - E05Y 2900/212 .. Doors disappearing in pockets in the furniture body
- E05Y 2900/30 . for domestic appliances
 - E05Y 2900/302 .. for built-in appliances
 - E05Y 2900/304 .. for dishwashers
 - E05Y 2900/306 .. for freezers
 - E05Y 2900/308 .. for ovens
 - E05Y 2900/31 .. for refrigerators
 - E05Y 2900/312 .. for washing machines
- E05Y 2900/40 . for gates
 - E05Y 2900/402 .. for cantilever gates

- E05Y 2900/404 .. for railway platform gates
- E05Y 2900/50 . for vehicles
- E05Y 2900/502 .. for aircraft
- E05Y 2900/504 .. for armored vehicles
- E05Y 2900/506 .. for buses
- E05Y 2900/508 .. for convertibles
- E05Y 2900/51 .. for railway cars or mass transit vehicles
- E05Y 2900/512 .. for recreational vehicles
- E05Y 2900/514 .. for ships
- E05Y 2900/516 .. for trucks or trailers
- E05Y 2900/518 .. for working vehicles
- E05Y 2900/53 .. characterised by the type of wing
- E05Y 2900/531 ... Doors
- E05Y 2900/532 Back doors or end doors
- E05Y 2900/534 ... Fuel lids
- E05Y 2900/536 ... Hoods
- E05Y 2900/538 ... Interior lids
- E05Y 2900/54 ... Luggage compartment lids for buses
- E05Y 2900/542 ... Roof panels
- E05Y 2900/544 ... Tailboards or sideboards
- E05Y 2900/546 ... Tailgates
- E05Y 2900/548 ... Trunk lids
- E05Y 2900/55 ... Windows
- E05Y 2900/60 . for other use
- E05Y 2900/602 .. for containers
- E05Y 2900/604 ... for large containers
- E05Y 2900/606 .. for electronic devices
- E05Y 2900/608 .. for machines
- E05Y 2900/612 .. for manhole covers
- E05Y 2900/614 .. for toilet seats or covers